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**The supplemental proceedings of the conference on Integrating technology into computer
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Volume 23 Issue 1
This paper describes a new approach to automatically learn contextual knowledge for spelling
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dictionary and so it is not obvious that there is an error. Traditional approaches are dictionary
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Our approach uses affix information and only the most frequent words to reduce the complexity
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Volume 27 Issue 4

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Paul Christian
Proceedings of the 16th annual ACM SIGUCCS Conference on User Services January
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Because of the proliferation of new hardware and software products aimed at turning all
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Tamara Babaian , Barbara J. Grosz , Stuart M. Shieber
Proceedings of the 7th international conference on Intelligent user interfaces January
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In traditional human-computer interfaces, a human master directs a computer system as a
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David R. Millen
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A case study is presented in which remote usability evaluation methods were used in the development of a new Internet service. The new service provided access to email using a standard web browser. User session logs, which included keystroke level event records, were examined for approximately 600 of the service trial users. This allowed temporal and activity analysis of user behavior, as well as the detection of general session usage patterns. In addition to keystroke level data, feedback about ...

5 “User revealment”—a comparison of initial queries and ensuing question 100%
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Ragnar Nordlie
Proceedings of the 22nd annual international ACM SIGIR conference on Research and development in information retrieval August 1999

6 AdaGIDE: a friendly introductory programming environment for a freshman computer science 100%
course
Martin C. Carlisle , A. T. Chamillard
ACM SIGAda Ada Letters March 1998
Volume XVIII Issue 2
We have recently transitioned the programming language in our Introduction to Computer Science course at the U.S. Air Force Academy from Pascal to Ada. Providing an intuitive and straightforward Integrated Development Environment (IDE) for Ada that is suitable for freshman use has been one of our greatest challenges. Although we recognize that a number of Ada IDEs are available, these IDEs do not seem to be designed for beginning programmers. Most of them are either too expensive for students to ...

7 A proposed structured collaboration architecture—derived from Scrutiny project 100%
John W. Gintell , Roland F. McKenney
ACM SIGOIS Bulletin April 1995
Volume 15 Issue 3
This position paper describes a proposed architecture for a family of collaborative applications where the collaboration is governed by a definable process. The architecture is derived from lessons learned and generalizations made from a recently completed three year project to build and use Scrutiny, a distributed CSCW system for performing software inspection and review.

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1 Technique for automatically correcting words in text

Karen Kukich

December 1992 **ACM Computing Surveys (CSUR)**, Volume 24 Issue 4

Full text available: 🔲 pdf(6.23 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

Research aimed at correcting words in text has focused on three progressively more difficult problems:(1) nonword error detection; (2) isolated-word error correction; and (3) context-dependent work correction. In response to the first problem, efficient pattern-matching and n-gram analysis techniques have been developed for detecting strings that do not appear in a given word list. In response to the second problem, a variety of general and application-specific spelling cor ...

Keywords: n-gram analysis, Optical Character Recognition (OCR), context-dependent spelling correction, grammar checking, natural-language-processing models, neural net classifiers, spell checking, spelling error detection, spelling error patterns, statistical-language models, word recognition and correction

2 A flexible object merging framework

Jonathan P. Munson, Prasun Dewan

October 1994 **Proceedings of the 1994 ACM conference on Computer supported cooperative work**

Full text available: 🔲 pdf(1.40 MB)

Additional Information: full citation, abstract, references, citings, index terms

The need to merge different versions of an object to a common state arises in collaborative computing due to several reasons including optimistic concurrency control, asynchronous coupling, and absence of access control. We have developed a flexible object merging framework that allows definition of the merge policy based on the particular application and the context of the collaborative activity. It performs automatic, semi-automatic, and interactive merges, supports semantics-determined m ...

Keywords: diff, flexible coupling, merging, optimistic concurrency control, undo, versions

3

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Computer programs for detecting and correcting spelling errors

James L. Peterson
December 1980 **Communications of the ACM**, Volume 23 Issue 12

Full text available: pdf(1.25 MB)   Additional Information: full citation, abstract, references, citings

With the increase in word and text processing computer systems, programs which check and correct spelling will become more and more common. Peterson investigates the basic structure of several such existing programs and their approaches to solving the problems which arise when this type of program is created. The basic framework and background necessary to write a spelling checker or corrector are provided.

Keywords: spelling, spelling correction, spelling dictionary, spelling programs

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4   ## Illustrative risks to the public in the use of computer systems and related technology

Peter G. Neumann
January 1996 **ACM SIGSOFT Software Engineering Notes**, Volume 21 Issue 1

Full text available: pdf(2.54 MB)   Additional Information: full citation

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5   ## Checking for spelling and typographical errors in computer-based text

Thomas N. Turba
June 1981 **ACM SIGPLAN Notices , Proceedings of the ACM SIGPLAN SIGOA symposium on Text manipulation**, Volume 16 Issue 6

Full text available: pdf(1.02 MB)   Additional Information: full citation, abstract, references, citings, index terms

This paper addresses the problems and techniques of checking for spelling and typographical errors in computer-based text. To some extent, the paper is a combination of a report of work done by the author and a survey of other work which, although not all used by the author, is of equal value and interest. Some of the material presented is related to other aspects of text processing such as data compaction and the efficient searching of very large dictionaries.

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6   ## P4: CLAT: controlled language authoring technology

Johann Haller, Jörg Schütz
October 2001 **Proceedings of the 19th annual international conference on Computer documentation**

Full text available: pdf(276.71 KB)   Additional Information: full citation, abstract, index terms

In this paper, we introduce our Controlled Language Authoring Technology which has been designed and implemented for its primary deployment in technical documentation and information processing environments. Its purpose is first and foremost to enhance the natural language products in this field in terms of readability and comprehensibility, and to provide a solid foundation for subsequent processes such as translation, dissemination, and information retrieval, including quality assurance proces ...

Keywords: computational linguistics, controlled languages, language technology, multilingual knowledge and information management systems, terminology

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7   ## Techniques for on-screen shapes, text and handwriting: Reflowing digital ink annotations

David Bargeron, Tomer Moscovich
April 2003 **Proceedings of the conference on Human factors in computing systems**

Full text available: pdf(738.55 KB)   Additional Information: full citation, abstract, references, index terms

Annotating paper documents with a pen is a familiar and indispensable activity across a wide variety of work and educational settings. Recent developments in pen-based computing promise to bring this experience to digital documents. However, digital documents are more flexible than their paper counterparts. When a digital document is edited, or displayed on different devices, its layout adapts to the new situation. Freeform digital ink annotations made on such a document must likewise adapt, or ...

Keywords: annotation, annotation system design, context, digital ink, documents, handwriting recognition, reflow

8 Commercial applications of natural language processing
Kenneth W. Church, Lisa F. Rau
November 1995 **Communications of the ACM**, Volume 38 Issue 11

Full text available: pdf(314.22 KB)   Additional Information: full citation, abstract, references, citings, index terms

Vast quantities of text are becoming available in electronic form, ranging from published documents (e.g., electronic dictionaries, encyclopedias, libraries and archives for information retrieval services), to private databases (e.g., marketing information, legal records, medical histories), to personal email and faxes. Online information services are reaching mainstream computer users. There were over 15 million Internet users in 1993, and projections are for 30 million in 1997. With media ...

9 Taming architectural evolution
André van der Hoek, Marija Mikic-Rakic, Roshanak Roshandel, Nenad Medvidovic
September 2001 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 8th European software engineering conference held jointly with 9th ACM SIGSOFT international symposium on Foundations of software engineering**, Volume 26 Issue 5

Full text available: pdf(217.45 KB)   Additional Information: full citation, abstract, references, citings, index terms

In the world of software development *everything* evolves. So, then, do software architectures. Unlike source code, for which the use of a configuration management (CM) system is the predominant approach to capturing and managing evolution, approaches to capturing and managing architectural evolution span a wide range of disconnected alternatives. This paper contributes a novel architecture evolution environment, called Mae, which brings together a number of these alternatives. The environm ...

Keywords: Mae, configuration managment, design environment, evolution, software architecture, system model

10 Large scale experiments on correction of confused words
Jin Hu Huang, David Powers
January 2001 **Australian Computer Science Communications , Proceedings of the 24th Australasian conference on Computer science**, Volume 23 Issue 1

Full text available: pdf(587.89 KB)
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Additional Information: full citation, abstract, references

This paper describes a new approach to automatically learn contextual knowledge for spelling and grammar correction --- we aim particularly to deal with cases where the words are all in the dictionary and so it is not obvious that there is an error. Traditional approaches are dictionary based, or use elementary tagging or partial parsing of the sentence to obtain

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context knowledge. Our approach uses affix information and only the most frequent words to reduce the complexity in terms of training ...

11 Assistive technology computers and persons with disabilities

Carl Brown

May 1992 **Communications of the ACM**, Volume 35 Issue 5

Full text available: pdf(3.69 MB)   Additional Information: full citation, references, citings, index terms, review

Keywords: assistive technology, disability

12 Information access and retrieval: Information retrieval and spelling correction: an inquiry into lexical disambiguation

Patrick Ruch

March 2002 **Proceedings of the 2002 ACM symposium on Applied computing**

Full text available: pdf(339.20 KB)   Additional Information: full citation, abstract, references, index terms

In a preliminary study, we show the effect of spelling errors on an ad hoc information retrieval task. Then, we report on the comparison of different strategies for correcting spelling errors resulting in non-existent words. Unlike interactive spelling checkers, where usually only the left context is available, the system we developed takes advantage of the entire context surrounding misspelling. Moreover, unlike traditional systems, based exclusively on a string-to-string edit distance and a wo ...

Keywords: information retrieval, lexical disambiguation, part-of-speech tagging, spelling correction, statistical language model, string edit distance

13 Efficient web browsing on handheld devices using page and form summarization

January 2002 **ACM Transactions on Information Systems (TOIS)**, Volume 20 Issue 1

Full text available: pdf(4.47 MB)   Additional Information: full citation, abstract, references, index terms, review

We present a design and implementation for displaying and manipulating HTML pages on small handheld devices such as personal digital assistants (PDAs), or cellular phones. We introduce methods for summarizing parts of Web pages and HTML forms. Each Web page is broken into text units that can each be hidden, partially displayed, made fully visible, or summarized. A variety of methods are introduced that summarize the text units. In addition, HTML forms are also summarized by displaying just the t ...

Keywords: PDA, Personal digital assistant, WAP, WML, forms, handheld computers, mobile computing, summarization, ubiquitous computing, wireless computing

14 Seeing the whole in parts: text summarization for web browsing on handheld devices

Orkut Buyukkokten, Hector Garcia-Molina, Andreas Paepcke

April 2001 **Proceedings of the tenth international conference on World Wide Web**

Full text available: pdf(1.48 MB)   Additional Information: full citation, references, citings, index terms

Keywords: PDA, WAP, handheld computers, mobile computing, personal digital assistant, summarization, ubiquitous computing, wireless computing

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15 Interactive Posters: The penguin: using the web as a database for descriptive and dynamic grammar and spell checking
Daniel Fallman
April 2002 **CHI '02 extended abstracts on Human factors in computer systems**
Full text available: pdf(509.73 KB)   Additional Information: full citation, abstract, references

In consequence of emergent limitations of traditional spell and grammar checkers, the Penguin prototype system has been designed to be a descriptive and dynamic tool for computer based writing. Rather than relying on a static dictionary, the web is used as a database to handle language artifacts out of the ordinary, such as idioms, colloquialisms, names, and slang expressions; a common source of concern especially for second language speakers.

Keywords: grammar & spell checking, linguistics, penguin, prototype

16 Information extraction for Thai documents
Rattasit Sukhahuta, Dan Smith
November 2000 **Proceedings of the fifth international workshop on on Information retrieval with Asian languages**
Full text available: pdf(746.40 KB)   Additional Information: full citation, abstract, references

An increasing amount of electronically available information is stored in Asian language documents, which makes Information Retrieval (IR) and Information Extraction (IE) for these languages important for a large number of users. Analysis and extraction of information in these languages presents several interesting problems not seen in Western European languages; these are interesting in their own right and for the insights they can give into more general IR and IE techniques. We describe the ...

Keywords: grammar parser, information extraction, part-of-speech tagger, phrase structure, word segmentation

17 Adaptive post-processing of OCR text via knowledge acquisition
Lon-Mu Liu, Yair M. Babad, Wei Sun, Ki-Kan Chan
April 1999 **Proceedings of the 19th annual conference on Computer Science**
Full text available: pdf(1.12 MB)   Additional Information: full citation, references

Keywords: OCR environment, OCR post-processing, adaptive error correction, knowledge acquisition, machine learning, optical character recognition

18 Evaluation of model-based retrieval effectiveness with OCR text
Kazem Taghva, Julie Borsack, Allen Condit
January 1996 **ACM Transactions on Information Systems (TOIS)**, Volume 14 Issue 1
Full text available: pdf(2.02 MB)   Additional Information: full citation, abstract, references, index terms, review

We give a comprehensive report on our experiments with retrieval from OCR-generated text using systems based on standard models of retrieval. More specifically, we show that average precision and recall is not affected by OCR errors across systems for several collections. The collections used in these experiments include both actual OCR-generated

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text and standard information retrieval collections corrupted through the simulation of OCR errors. Both the actual and simulation experiments inc ...

Keywords: error correction, feedback, optical character recognition, ranking algorithms

19 The use of lexical affinities in requirements extraction

Y. S. Maarek, D. M. Berry

April 1989 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 5th international workshop on Software specification and design**, Volume 14 Issue 3

Full text available: pdf(843.41 KB)   Additional Information: full citation, references, citings, index terms

20 Evaluating natural language processing systems

Margaret King

January 1996 **Communications of the ACM**, Volume 39 Issue 1

Full text available: pdf(587.85 KB)   Additional Information: full citation, references, index terms, review

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1 **Technique for automatically correcting words in text**
Karen Kukich
December 1992 **ACM Computing Surveys (CSUR)**, Volume 24 Issue 4

Full text available: 📄 pdf(6.23 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

Research aimed at correcting words in text has focused on three progressively more difficult problems:(1) nonword error detection; (2) isolated-word error correction; and (3) context-dependent work correction. In response to the first problem, efficient pattern-matching and n-gram analysis techniques have been developed for detecting strings that do not appear in a given word list. In response to the second problem, a variety of general and application-specific spelling cor ...

Keywords: n-gram analysis, Optical Character Recognition (OCR), context-dependent spelling correction, grammar checking, natural-language-processing models, neural net classifiers, spell checking, spelling error detection, spelling error patterns, statistical-language models, word recognition and correction

2 **Computer programs for detecting and correcting spelling errors**
James L. Peterson
December 1980 **Communications of the ACM,** Volume 23 Issue 12

Full text available: 📄 pdf(1.25 MB)   Additional Information: full citation, abstract, references, citings

With the increase in word and text processing computer systems, programs which check and correct spelling will become more and more common. Peterson investigates the basic structure of several such existing programs and their approaches to solving the problems which arise when this type of program is created. The basic framework and background necessary to write a spelling checker or corrector are provided.

Keywords: spelling, spelling correction, spelling dictionary, spelling programs

3 **String similarity and misspellings**
Cyril N. Alberga
May 1967 **Communications of the ACM**, Volume 10 Issue 5

Full text available: Additional Information:

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pdf(1.75 MB)   full citation, references, citings, index terms

4 Spelling correction for the telecommunications network for the deaf

Karen Kukich

May 1992 **Communications of the ACM**, Volume 35 Issue 5

Full text available: pdf(7.82 MB)   Additional Information: full citation, references, citings, index terms, review

Keywords: spelling correction, telecommunications network for the deaf, text-to-speech synthesis

5 An English language question answering system for a large relational database

David L. Waltz

July 1978 **Communications of the ACM**, Volume 21 Issue 7

Full text available: pdf(1.55 MB)   Additional Information: full citation, abstract, references, citings, index terms

By typing requests in English, casual users will be able to obtain explicit answers from a large relational database of aircraft flight and maintenance data using a system called PLANES. The design and implementation of this system is described and illustrated with detailed examples of the operation of system components and examples of overall system operation. The language processing portion of the system uses a number of augmented transition networks, each of which matches phrases with a ...

Keywords: artificial intelligence, database front end, dialogue, information retrieval, natural language, natural language programming, query generation, question answering, relational database

6 Developing a natural language interface to complex data

Gary G. Hendrix, Earl D. Sacerdoti, Daniel Sagalowicz, Jonathan Slocum

June 1978 **ACM Transactions on Database Systems (TODS)**, Volume 3 Issue 2

Full text available: pdf(3.13 MB)   Additional Information: full citation, abstract, references, citings, index terms

Aspects of an intelligent interface that provides natural language access to a large body of data distributed over a computer network are described. The overall system architecture is presented, showing how a user is buffered from the actual database management systems (DBMSs) by three layers of insulating components. These layers operate in series to convert natural language queries into calls to DBMSs at remote sites. Attention is then focused on the first of the insulating components, th ...

Keywords: database access, human engineering, intelligent interface, natural language, run-time personalization, semantic grammar

7 Characteristic errors in programming languages

J. D. Gannon

January 1978 **Proceedings of the 1978 annual conference - Volume 2**

Full text available: pdf(608.74 KB)   Additional Information: full citation, abstract, references, index terms

This paper examines the features of a small ALGOL-like language for characteristic errors. These errors occur in the general use of a language feature, rather than its use in a

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particular program. Language design and defensive programming are suggested as ways of dealing with these errors. Data collected in observing 33 subjects writing small (43-216 lines), but sophisticated programs demonstrate that these errors are both frequent and persistent in the development of programs.

Keywords: Characteristic errors, Defensive programming, Experimentation, Language design, Reliable software

8 Checking for spelling and typographical errors in computer-based text

Thomas N. Turba

June 1981 **ACM SIGPLAN Notices , Proceedings of the ACM SIGPLAN SIGOA symposium on Text manipulation**, Volume 16 Issue 6

Full text available: pdf(1.02 MB)   Additional Information: full citation, abstract, references, citings, index terms

This paper addresses the problems and techniques of checking for spelling and typographical errors in computer-based text. To some extent, the paper is a combination of a report of work done by the author and a survey of other work which, although not all used by the author, is of equal value and interest. Some of the material presented is related to other aspects of text processing such as data compaction and the efficient searching of very large dictionaries.

9 Document Contents Representation model of sentence retrieval system SCAT-IR

Michiyo Nikkuni, Hajime Tanaka

May 1981 **Proceedings of the 4th annual international ACM SIGIR conference on Information storage and retrieval: theoretical issues in information retrieval**

Full text available: pdf(542.04 KB)   Additional Information: full citation, abstract, references

A "Document Contents Representation" (DCR) model is introduced from a formal viewpoint to deal with the entire contents of a document such as individual sentences of a text, bibliography, references, etc. in a scientific information system. A "Mapping Definition Language" (MDL) is proposed to map directly and naturally the document contents into the DCR model. An application of the DCR model and MDL to scientific documents is shown. Some examples of advanced retrieval by SCAT-IR system implement ...

10 Natural language with discrete speech as a mode for human-to-machine

Alan W. Biermann, Robert D. Rodman, David C. Rubin, J. Francis Heidlage

June 1985 **Communications of the ACM**, Volume 28 Issue 6

Full text available: pdf(1.04 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

A voice interactive natural language system, which allows users to solve problems with spoken English commands, has been constructed. The system utilizes a commercially available discrete speech recognizer which requires that each word be followed by approximately a 300 millisecond pause. In a test of the system, subjects were able to learn its use after about two hours of training. The system correctly processed about 77 percent of the over 6000 input sentences spoken in problem-solving se ...

11 Evaluation of model-based retrieval effectiveness with OCR text

Kazem Taghva, Julie Borsack, Allen Condit

January 1996 **ACM Transactions on Information Systems (TOIS)**, Volume 14 Issue 1

Full text available: pdf(2.02 MB)   Additional Information: full citation, abstract, references, index terms, review

We give a comprehensive report on our experiments with retrieval from OCR-generated text

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using systems based on standard models of retrieval. More specifically, we show that average precision and recall is not affected by OCR errors across systems for several collections. The collections used in these experiments include both actual OCR-generated text and standard information retrieval collections corrupted through the simulation of OCR errors. Both the actual and simulation experiments inc ...

Keywords: error correction, feedback, optical character recognition, ranking algorithms

12 A backend machine architecture for information retrieval
Amar Mukhopadhyay
June 1980 **Proceedings of the 3rd annual ACM conference on Research and development in information retrieval**
Full text available: pdf(525.26 KB)   Additional Information: full citation, references

13 The use of dynamic contexts to improve casual internet searching
Gondy Leroy, Ann M. Lally, Hsinchun Chen
July 2003 **ACM Transactions on Information Systems (TOIS)**, Volume 21 Issue 3
Full text available: pdf(231.61 KB)   Additional Information: full citation, abstract, references, index terms

Research has shown that most users' online information searches are suboptimal. Query optimization based on a relevance feedback or genetic algorithm using dynamic query contexts can help casual users search the Internet. These algorithms can draw on implicit user feedback based on the surrounding links and text in a search engine result set to expand user queries with a variable number of keywords in two manners. Positive expansion adds terms to a user's keywords with a Boolean "and," negative ...

Keywords: Information retrieval, Internet, automatic query expansion, genetic algorithm, implicit user feedback, personalization, relevance feedback

14 The keystroke-level model for user performance time with interactive systems
Stuart K. Card, Thomas P. Moran, Allen Newell
July 1980 **Communications of the ACM**, Volume 23 Issue 7
Full text available: pdf(4.62 MB)   Additional Information: full citation, references, citings

Keywords: cognitive psychology, ergonomics, human factors, human-computer interaction, human-computer interface, systems design, user model, user performance

15 Composite document extended retrieval: an overview
Edward A. Fox
June 1985 **Proceedings of the 8th annual international ACM SIGIR conference on Research and development in information retrieval**
Full text available: pdf(1.03 MB)   Additional Information: full citation, abstract, references, citings

Experimental information retrieval (IR) systems, some dating back to the sixties, have demonstrated the viability of fully automatic document storage and retrieval methodologies with small to medium size bibliographic collections [72]. Many of these experimental systems utilize the vector space model in which each important term (such as a word stem) identifies a different dimension in a space, so that matrix methods and vector operations can be defined on queries and documents. Statistical ...

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16 Interprocedural static analysis of sequencing constraints
Kurt M. Olender, Leon J. Osterweil
January 1992 **ACM Transactions on Software Engineering and Methodology (TOSEM),**
Volume 1 Issue 1

Full text available: pdf(2.37 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

This paper describes a system that automatically performs static interprocedural sequencing analysis from programmable constraint specifications. We describe the algorithms used for interprocedural analysis, relate the problems arising from the analysis of real-world programs, and show how these difficulties were overcome. Finally, we sketch the architecture of our prototype analysis system (called Cesar) and describe our experiences to date with its use, citing performance and error detect ...

Keywords: error detection, interprocedural data flow analysis, sequencing constraints

17 PRAM: prolog automatic marker
Fatima Z. Mansouri, Cleveland A. Gibbon, Colin A. Higgins
August 1998 **ACM SIGCSE Bulletin , Proceedings of the 6th annual conference on the teaching of computing and the 3rd annual conference on Integrating technology into computer science education: Changing the delivery of computer science education,** Volume 30 Issue 3

Full text available: pdf(633.89 KB)   Additional Information: full citation, abstract, references, citings, index terms

Sometime during their academic career, most teachers will have to mark and assess students' work. A system that automatically marks students' work and gives instant feedback would be highly beneficial to both teachers and students alike. A Prolog automatic marker is described here for this purpose.

Keywords: Prolog, automatic marking, complexity, correctness, education, metrics, style, testing

18 Computer-assisted instruction: Specification of attributes for CAI programs and programmers
Gloria M. Silvern, Leonard C. Silvern
January 1966 **Proceedings of the 1966 21st national conference**

Full text available: pdf(1.15 MB)   Additional Information: full citation, abstract, references, citings, index terms

Man's search for knowledge began in antiquity and led ultimately to the invention of the textbook. The first, a spelling book of 72 pages, was published in 15961. It contained spelling lessons and a smattering of arithmetic, history and a short catechism. The first American textbook was published in 1641. This is remarkable since it was printed on the first press in the colonies, assembled only a few years before, in 1639. Nearly 200 years elapsed before the ...

19 A tour through cedar
Warren Teitelman
March 1984 **Proceedings of the 7th international conference on Software engineering**

Full text available: pdf(2.08 MB)   Additional Information: full citation, references, citings, index terms

20 <u>Automatic spelling correction in scientific and scholarly text</u>
Joseph J. Pollock, Antonio Zamora
April 1984 **Communications of the ACM**, Volume 27 Issue 4
Full text available: pdf(901.06 KB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

Keywords: dictionary lookup, similarity keys, spelling correction

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